The Monitor

The Quarterly Newsletter of the ETV Advanced Monitoring Systems (AMS) Pilot

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AMS Pilot Conducts First Verification Test

The first technology verification test under the Advanced Monitoring System (AMS) pilot was conducted in January for portable analyzers used to measure nitric oxide and nitrogen dioxide (NO/NO_2) emissions from small sources. The AMS pilot is one of 12 pilots in the U.S. Environmental Protection Agency's Environmental Technology Verification (ETV) program. The test of NO/NO_2 analyzers was conducted at the Columbus laboratories of Battelle, which is EPA's partner in the AMS pilot. The objective of the AMS pilot is to verify the performance of commercially ready advanced monitoring technologies for air, water, and soil.

The verification test for NO/NO_2 analyzers involved both laboratory tests, in which the analyzers were challenged with NO and NO_2 under various test conditions, and source tests, which compared each instrument's performance with EPA Reference Method 7E. Emissions from several small sources—such as a diesel engine and a natural gas-fueled cooking stove—were then measured using the NO/NO_2 analyzers and Method 7E.

ETV

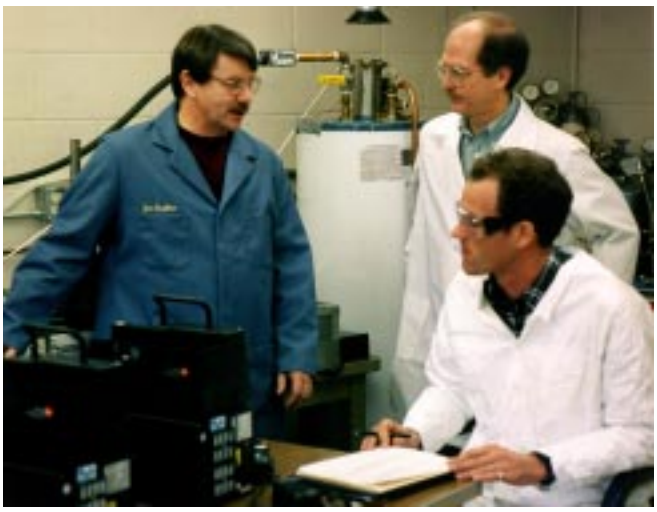
The AMS Pilot is one of 12 pilots in the U.S. Environmental Protection Agency's Environmental Technology Verification Program

Representatives of each participating vendor company monitored and recorded the readings by their instruments during the test. Complete information is provided in the Test/QA Plan for Verification of Portable NO/NO_2 Emission Analyzers, Version 1.0, December 1998, which is available on the ETV website at http://www.epa.gov/etv (click on Documents).

Vendor companies participating in this verification test were: ECOM America Ltd., Duluth, GA; Energy Efficiency Systems, Westboro, MA; Horiba Instruments, Pittsburgh, PA; Testo, Inc., Flanders, NJ; and TSI, Incorporated, Shoreview, MN. The test was audited by quality assurance staff from EPA's Office of Research and Development's National Exposure Research Laboratory in Research Triangle Park, NC, and from Battelle. Staff from the Ohio Environmental Protection Agency observed the test.

The ETV program's goal is to accelerate the acceptance of environmental technologies. Third-party verification tests benefit vendors by providing purchasers and regulatory agencies with an independent, credible assessment of the technology they are buying or permitting. Participating vendors, EPA/ETV staff, and stakeholders will review the NO/NO_2 Verification Test Report. The report will be available on the ETV website in approximately four months, along with a verification statement from EPA.

Reinhold Munch and Craig McKim (seated in left photo), representatives of Testo, Inc., of Flanders, NJ, prepare for the NO/NO_2 cylinder test with Battelle staff members Sandra Anderson and Tom Kelly. Battelle's Jim Reuther (at left in photo below) observes the test phase of small emission sources.



Meet the Stakeholder Committees

Two members of the AMS pilot's stakeholder committees are spotlighted in each issue of *The Monitor*—one each from the air and water committees.

Geri Hart,
Air Stakeholder
Committee

Ms. Hart currently serves as pollution prevention chief in the Environmental Management Directorate at Tinker AFB in Oklahoma. Her responsibilities include direction and oversight of the base's pollution prevention program; Toxic Release Inventory (TRI) reporting; air quality, solid waste management reduction, waste minimization, and alternative fuels programs; the HazMat Pharmacy; and implementation of innovative technologies. Previously, Ms. Hart was chief of the compliance support branch and the environmental programs division in the Environmental Directorate. She has a BS in agricultural engineering from Oklahoma State University and an MS in environmental management from Oklahoma University, pending approval of her thesis. She is a member of the Air and Waste Management Association (AWMA) and will present papers at its 1999 conference, one titled "P2, the New Direction," and a second titled "Compliance Requirements for 24 Air Source Categories." She is also a member of the Society of American Military Engineers (SAME) and currently serves on SAME's board. Ms. Hart received a Secretary of Defense Environmental Recognition award in 1998.

Marty Link,
Water Stakeholder
Committee

Bringing a state perspective to the committee's discussions, Ms. Link has been employed by the Nebraska Department of Environmental Quality's (DEQ) Ground Water Section since 1988, initially overseeing the Ground Water Management Area, a nonpoint source contamination program. Since 1993, she has been the unit supervisor of several programs, including wellhead protection, ground water management area, hydrologic reviews, and ground water standards. She supervises eight professional staff and two college interns. They are currently finishing Nebraska's submittal to EPA for a new source water assessment program. Ms. Link also assisted the Water Well Drillers Board in rewriting the state test for licensing water well drillers. Prior to coming to the DEQ, she had a variety of work experience, as a geologist for a Lincoln consulting firm, bookkeeper, and teacher. A native of Nebraska, Ms. Link has undergraduate degrees in science education and geology from the University of Iowa and the University of Kansas, respectively, and an MS in geology from the University of Nebraska at Lincoln.

'Monitor' More Often

Beginning with this issue, the AMS pilot's newsletter, *The Monitor,* will be published monthly instead of quarterly to provide readers with more information more often. The major focus this month and in future issues will be on the vendors participating in verification tests. The article below provides a look ahead at technology categories to be tested.

Next Vendor Meetings, Tests Scheduled

Meetings for vendors interested in having their air and water monitoring instruments tested under the AMS pilot will be scheduled over the next three months in preparation for verification tests. The technology categories include:

Air: ambient particulate monitors (PM2.5) and open-path optical monitors
Water: turbidimeters, portable field probes for organics in water, and portable pathogen detectors.

The purpose of these meetings is to begin to develop the design of verification tests. Following the meetings test/QA plans will be prepared for each technology category, then reviewed by participating vendors, stakeholders, and quality assurance staff from EPA/ETV and Battelle. For further information about these meetings and tests, please contact Ken Cowen at Battelle, Phone 614-424-5547, Fax 614-424-3638, or E-mail cowenk@battelle.org.

Third Stakeholder Meetings Set

San Francisco and Albuquerque are the sites for the third meetings of the AMS pilot's air and water stakeholder committees, respectively. Air committee members will meet February 22–23 at the Majestic Hotel in San Francisco. Water committee members will meet March 2–3 at the Sheraton Old Town Hotel in Albuquerque. For additional information about these meetings, contact:

Air: Gretchen Hund, Battelle, Phone 206-528-3338; Fax 206-528-3552; E-mail hund@battelle.org.
Water: Todd Peterson, Battelle; Phone 206-528-3274; Fax 206-528-3552; E-mail peterts@battelle.org.

Abbreviations

AMS — Advanced Monitoring Systems
EPA — U.S. Environmental Protection Agency
ETV — Environmental Technology Verification
TRI — Toxic Release Inventory

QUESTIONS? If you would like additional information about EPA's Environmental Technology Verification Program and all 12 of its pilots, go the World Wide Web at http://www.epa.gov/etv. You can go directly to the AMS pilot's information at http://www.epa.gov/etv/07/07_main.htm. Or you can contact Helen Latham at Battelle, 505 King Avenue, Columbus, OH 43201-2693; Phone 614-424-4062; Fax 614-424-5601; E-mail lathamh@battelle.org.